ENDF/B-VII.1 TI-50
resonance total cross section
ENDF/B-VII.1 TI-50
resonance total cross section
ENDF/B-VII.1 TI-50
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

10^{-1}

10^{-2}

10^{-3}

10^{-4}

10^{0}

10^{-1}

10^{-2}

10^{-3}

10^{-4}

10^{0}

Evaporation capture
ENDF/B-VII.1 TI-50
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

capture
ENDF/B-VII.1 TI-50 Heating

Energy (MeV) vs Heating (MeV/reaction)

- Heating is plotted on a logarithmic scale.
- The energy range is from $10^{-11}$ to $10^1$ MeV.
- The heating reach is from $10^{-6}$ to $10^0$ MeV/reaction.

The graph shows a generally increasing trend in heating with increasing energy, except for a small dip in the middle energy range.
ENDF/B-VII.1 TI-50
Non-threshold reactions

Energy (MeV)

Cross section (barns)

(n,gma)
ENDF/B-VII.1 TI-50
Non-threshold reactions

Cross section (barns) vs. Energy (MeV)

(n,gma)
ENDF/B-VII.1 TI-50
Inelastic levels

Energy (MeV)

Cross section (barns)

- (n,n*1)
- (n,n*2)
- (n,n*3)
- (n,n*4)
- (n,n*5)
ENDF/B-VII.1 TI-50
Threshold reactions

Energy (MeV)

Cross section (barns)

- (n,p)
- (n,d)
- (n,t)
- (n,he3)
- (n,a)
ENDF/B-VII.1 TI-50
angular distribution for elastic

Prob/Cos

10^1
10^0
10^-1
1.0 0.5 0.0 -0.5 -1.0
Cosine

10 15 20
Energy (MeV)
ENDF/B-VII.1 TI-50
angular distribution for (n,n^*1)
ENDF/B-VII.1 TI-50
angular distribution for (n,n*2)
ENDF/B-VII.1 TI-50
angular distribution for (n,n*3)
ENDF/B-VII.1 TI-50
angular distribution for (n,n*4)
ENDF/B-VII.1 TI-50
angular distribution for (n,n*5)
ENDF/B-VII.1 TI-50
angular distribution for (n,n*6)
ENDF/B-VII.1 TI-50
angular distribution for (n,n*7)
ENDF/B-VII.1 TI-50
angular distribution for \((n,n^*8)\)
ENDF/B-VII.1 TI-50
angular distribution for (n,n*9)
ENDF/B-VII.1 TI-50
angular distribution for (n,n*10)
ENDF/B-VII.1 TI-50
angular distribution for (n,n*11)
ENDF/B-VII.1 TI-50
Neutron emission for (n,2n)
ENDF/B-VII.1 TI-50
Neutron emission for (n,3n)
ENDF/B-VII.1 TI-50
Neutron emission for \((n,n^*)a\)
ENDF/B-VII.1 TI-50
Neutron emission for (n,n*)p
ENDF/B-VII.1 TI-50
Neutron emission for \((n,n^*c)\)
ENDF/B-VII.1 TI-50
Photon emission for (n,2n)
ENDF/B-VII.1 TI-50
Photon emission for (n,3n)
ENDF/B-VII.1 TI-50
Photon emission for (n,n*)a
ENDF/B-VII.1 TI-50
Photon emission for (n,n*)p
ENDF/B-VII.1 TI-50
Photon emission for (n,n*c)
ENDF/B-VII.1 TI-50
Photon emission for (n,gma)
ENDF/B-VII.1 TI-50 thermal capture photon spectrum
ENDF/B-VII.1 TI-50
14 MeV photon spectrum
ENDF/B-VII.1 TI-50
Particle heating contributions

Energy (MeV)

MeV/collision

*10^{-3}

protons

alphas

Energy (MeV)
ENDF/B-VII.1 TI-50
Recoil Heating

![Graph showing the relationship between Energy (MeV) and Heating (MeV/reaction) for TI-50 recoil heating. The graph shows a positive correlation with energy, indicating an increase in heating with increasing energy.]
ENDF/B-VII.1 TI-50
Particle production cross sections

Energy (MeV)

Cross section (barns)

protons
alphas

Energy (MeV)
ENDF/B-VII.1 TI-50 protons from \((n,n^*)p\)
ENDF/B-VII.1 TI-50
alphas from \((n,n^*)a\)